

Message Text

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ORIGIN NASA-02

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FM SECSTATE WASHDC

TO AMEMBASSY ISLAMABAD PRIORITY

INFO AMCONSUL KARACHI PRIORITY

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E.O. 11652: N/A

TAGS: TSPA

SUBJECT: NASA PORTABLE LANDSAT RECEIVER

REF: (A) STATE 058351

1. TO ESTABLISH PORTABLE LANDSAT STATION AT RAWALPINDI SITE, NASA PLANS EXCHANGE OF LETTERS WITH SUPARCO AND MR. ARNOLD W. FRUTKIN, ASSISTANT ADMINISTRATOR OF INTERNATIONAL AFFAIRS.

2. FOLLOWING IS DRAFT TEXT OF SUCH A LETTER AGREEMENT WHICH MAY BE USED FOR DISCUSSION PURPOSES. TEXT WOULD HAVE TO BE FINALIZED BASED ON GOP COMMENTS.

QUOTE: PURSUANT TO THE SITE SURVEY WHICH WAS CONDUCTED
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IN APRIL, 1976, NASA WOULD LIKE TO PROCEED WITH THE

ESTABLISHMENT OF A TEMPORARY PORTABLE LANDSAT GROUND RECEIVER STATION AT RAWALPINDI. THIS FACILITY WOULD BE USED TO GATHER LANDSAT SATELLITE DATA IN SUPPORT OF NASA'S LARGE AREA CROP INVENTORY EXPERIMENT (LACIE) WHICH INVOLVES USE OF LANDSAT DATA TO ENHANCE THE TIMELINESS AND ACCURACY OF WORLD-WIDE WHEAT PRODUCTION FORECASTS. NASA HAS PREVIOUSLY GATHERED DATA OF MAJOR WHEAT GROWING

REGIONS WITH SATELLITE ON-BOARD TAPE RECORDERS. SUCH RECORDERS, HOWEVER, PROVIDE ONLY LIMITED CAPABILITIES. IN ADDITION, WE HAVE EXPERIENCED SOME FAILURES WITH THE RECORDERS AND AS A RESULT, WE WOULD LIKE TO LOCATE THIS TEMPORARY FACILITY IN PAKISTAN TO INSURE COVERAGE OF THE HIGH PRIORITY AREAS DURING THE GROWING SEASONS.

THE STATION WOULD BE OPERATIONAL FROM ON OR ABOUT JUNE 1976 UNTIL MARCH 1977 WHEN THE EQUIPMENT WOULD BE RETURNED TO THE UNITED STATES FOR REFURBISHMENT AND USE IN SUPPORT OF THE LANDSAT-C MISSION (NOW SCHEDULED FOR LAUNCHING SEPTEMBER 1977).

EQUIPMENT IN THE STATION WOULD CONSIST OF ONE ENCLOSED INSTRUMENTATION VAN WHICH WILL HAVE ELECTRONIC EQUIPMENT, AN ANTENNA FLAT-BED TRAILER, 2 SKID MOUNTED 45 KW DIESEL GENERATORS, AND TWO 20 X 20 PREFAB BUILDINGS. THE VAN WILL CONTAIN ONE SET ANTENNA CONTROLS, BIT SYNCHRONIZER AND MONITOR SYSTEMS, TWO RCA TR-70-CVR-3-E TAPE RECORDERS, ONE DATA AND ONE TRACKING RECEIVER. ANTENNA TRAILER HAS 24 FOOT ANTENNA PEDESTAL AND FEED ASSEMBLY. STATION WILL RECEIVE ONLY AND NOT TRANSMIT. ALL EQUIPMENT WOULD BE AIRLIFTED TO PAKISTAN BY USAF MILITARY AIRLIFT COMMAND AIRCRAFT.

IN ORDER TO MEET THE JUNE OPERATING DATE, NASA WOULD LIKE TO BEGIN CONSTRUCTION DURING MAY 1976. ALL COSTS OF CONSTRUCTING, INSTALLING, EQUIPPING AND OPERATING THE STATION WILL BE BORNE BY NASA.

IT IS UNDERSTOOD THAT TO CARRY OUT THIS PROGRAM SUPARCO WILL USE ITS BEST EFFORTS TO:
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A. MAKE AVAILABLE SUITABLE SITE AND RIGHT OF WAYS FOR LOCATION OF STATION AT RAWALPINDI.

B. FACILITATE ADMISSION INTO PAKISTAN OF SUCH U.S. PERSONNEL AS MAY VISIT OR BE ASSIGNED FOR CONSTRUCTION AND OPERATION TO THE STATION.

C. OBTAIN WAIVERS OF ANY LOCAL WORK PERMITS.

D. OBTAIN EXEMPTIONS TO LOCAL SALARY OR RESIDENCE/
DOMICILE TAXES.

E. TAKE WHATEVER MEASURES ARE PRACTICAL TO MAINTAIN
FREEDOM FROM HARMFUL RADIO INTERFERENCE, INVESTIGATE ANY
INTERFERENCE TO RECEPTION AT THE STATION AND TAKE ALL

REASONABLE STEPS TO SECURE THE CESSATION OF SUCH INTER-
FERENCE.

F. FACILITATE INSTALLATION OF ANY COMMUNICATION LINES,
POWER AND WATER REQUIRED AT SITE.

NASA WILL USE ITS BEST EFFORTS TO:

A. CONSTRUCT, INSTALL AND OPERATE PORTABLE RECEIVING
STATION EMPLOYING LOCAL SUBCONTRACTORS AND LOCAL LABOR
TO THE MAXIMUM EXTENT FEASIBLE. OPTIMUM POSSIBLE USE
WILL BE MADE OF LOCAL MATERIALS AND SUPPLIES WHICH MEET
NASA'S REQUIRED SPECIFICATIONS.

B. OPERATE STATION FOR EIGHT HOURS EACH DAY, SEVEN DAYS
PER WEEK DURING DAYLIGHT HOURS, RECEIVING AND RECORDING
REAL-TIME DATA DURING TIME LANDSAT SATELLITE IS IN VIEW.
ENVIRONMENTAL CONTROL WILL REQUIRE CONTINUOUS OPERATION OF
HEATING, AIR-CONDITION, AND VENTILATING EQUIPMENT.

C. PROVIDE SUPARCO WITH ONE COMPLETE SET OF 70MM FILM,
AFTER PROCESSING IN U.S. OF DATA ACQUIRED BY PORTABLE
STATION IN PAKISTAN AS REQUIRED BY SUPARCO.

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D. PROVIDE APPROXIMATELY SIX (6) NASA CONTRACT PER-
SONNEL TO OPERATE AND MAINTAIN PORTABLE RECEIVING STATION.

E. UTILIZE DOMESTIC AND INTERNATIONAL TELECOMMUNICATIONS
FACILITIES FOR COMMUNICATIONS TO THE UNITED STATES AND TO
OTHER TRACKING STATIONS OF NASA.

NASA AND SUPARCO WILL EACH DESIGNATE A PROJECT MANAGER
WHO WILL BE RESPONSIBLE FOR COORDINATING THE AGREED
FUNCTIONS AND RESPONSIBILITIES OF EACH AGENCY WITH
RESPECT TO THE OTHERS.

IT IS UNDERSTOOD THAT THIS PROJECT IS EXPERIMENTAL IN
CHARACTER AND THEREFORE SUBJECT TO CHANGE IN ACCORDANCE
WITH CHANGING TECHNICAL REQUIREMENTS AND OPPORTUNITIES.

THEREFORE THE TECHNICAL DETAILS FOR IMPLEMENTING THE PROJECT MAY BE MODIFIED BY MUTUAL AGREEMENT AMONG THE PROJECT MANAGERS. IF THE PROJECT MANAGERS FAIL TO AGREE, PARTICIPATING AGENCIES SHALL RESOLVE THE ISSUE.

SUPARCO AND NASA WILL USE THEIR BEST EFFORTS TO ARRANGE FREE CUSTOMS CLEARANCE FOR EQUIPMENT AND TAPES REQUIRED IN THIS PROJECT AND PERSONAL EFFECTS OF ASSIGNED U.S. PERSONNEL. IN THIS REGARD SUPARCO UNDERSTANDS THE NEED

FOR DAILY EXPORT CLEARANCE OF DATA TAPES ONCE STATION BEGINS RECEIVING DATA.

THE DATA, ONCE PROCESSED WILL BE MADE AVAILABLE TO THE USGS FACILITY AT SIOUX FALLS FOR PURCHASE BY THE PUBLIC. RESULTS OF THE LACIE EXPERIMENT WILL BE MADE AVAILABLE TO THE SCIENTIFIC COMMUNITY IN GENERAL THROUGH PUBLICATION IN APPROPRIATE JOURNALS OR OTHER ESTABLISHED CHANNELS AS SOON AS POSSIBLE AND CONSISTENT WITH GOOD SCIENTIFIC PRACTICE.

EACH AGENCY MAY RELEASE PUBLIC INFORMATION REGARDING ITS OWN PORTION OF THE PROJECT AS DESIRED AND, INSOFAR AS THE PARTICIPATION OF THE OTHER AGENCY IS CONCERNED, AFTER SUITABLE COORDINATION.

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IT IS UNDERSTOOD THAT THE ABILITY OF NASA AND SUPARCO TO CARRY OUT THEIR OBLIGATIONS IS SUBJECT TO THE AVAILABILITY OF APPROPRIATED FUNDS.

IF THE ABOVE ARRANGEMENTS ARE SATISFACTORY, WE PROPOSE THAT THIS LETTER, TOGETHER WITH YOUR AFFIRMATIVE RESPONSE, CONSTITUTE A BASIS FOR PROCEEDING WITH THIS ACTIVITY. END QUOTE.

3. DRAFT TEXT WILL BE FINALIZED UPON APPROVAL OF GOP AND FORWARDED FOR SIGNATURE. IT IS TO BE EMPHASIZED THAT FINAL SITE SELECTION AND SHIPMENT OF EQUIPMENTS IS DESIRED AS SOON AS POSSIBLE AND THAT NASA WILLING TO PROCEED IMMEDIATELY UPON APPROVAL OF GOP. SISCO

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